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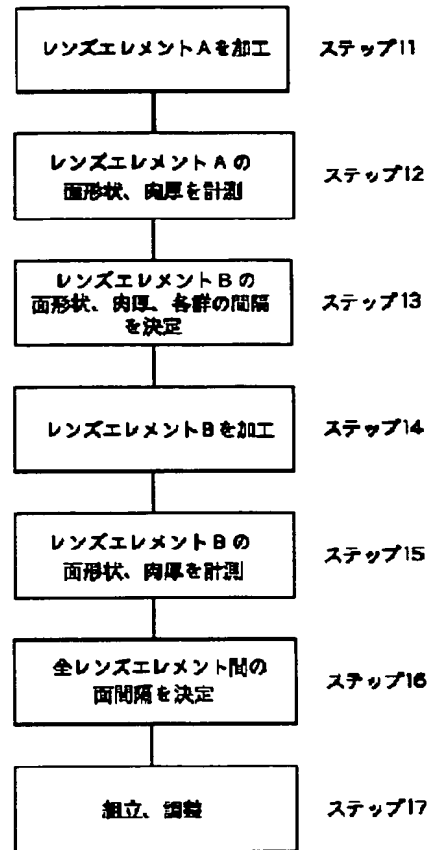
APPLICATION DATE : 16-12-97
APPLICATION NUMBER : 09363417

APPLICANT : CANON INC;

INVENTOR : SUMIYOSHI YUHEI;

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TITLE : ASSEMBLY ADJUSTMENT METHOD
OF PROJECTION OPTICAL SYSTEM



ABSTRACT : PROBLEM TO BE SOLVED: To amend deterioration of optical performance caused by a preparation error, by calculating optical characteristic of a correcting optical member from measurement results of optical characteristic of an optical member and processing it.

SOLUTION: (S11) A lens element A is processed. (S12) Radius of curvature R of surface configuration and a thickness (d) are measured. (S13) Generated aberration is subjected to optimization calculation by employing a clearance between lenses, surface configuration R of a lens element B and a thickness (d) as parameters. (S14) A lens element B is processed based thereon. (S15) Surface configuration R of the lens element B and the thickness (d) of the lens element B are measured. (S15, 16) Generated aberration is subjected to optimization calculation by employing a clearance between lenses as a parameter and amended. (S17) Then, assembly adjustment is carried out. As a result, it is possible to amend deterioration of optical performance caused by a preparation error of an optical part, to make preparation of highly precise projection optical system easy and to further relax tolerance setting.

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